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PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of: Wang et al.

Application No. 10/816,466

Filed: March 31, 2004

Confirmation No. 1042

For: ROBUST REAL-TIME SPEECH CODEC

Examiner: Not yet assigned

Art Unit: 2641

Attorney Reference No. 3382-67640-01

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PURSUANT TO 37 C.F.R. § 1.97(b)(3)**

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Listed on the accompanying form PTO-1449 and enclosed herewith are several English-language documents. Applicants respectfully request that these documents be listed as references cited on the issued patent.

Copies of United States patents and United States published patent applications do not have to be provided to the Patent Office (37 C.F.R. 1.98(a)(2)(ii)). Copies of unpublished U.S. applications do not have to be provided, as long as the application is available on PAIR, as this requirement of 37 C.F.R. § 1.98(a)(2)(iii) has been waived by the United States Patent and Trademark Office pursuant to the Official Gazette Notice on October 19, 2004 (1287 OG 163). Applicants will provide copies of such patents or applications upon request.

Applicants filed this Information Disclosure Statement ("IDS") before the mailing date of a first Office action on the merits. As a result, no fee should be required to file this IDS.

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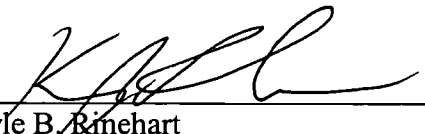
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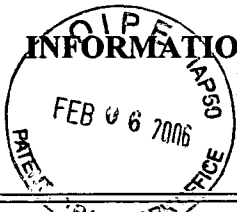
KLARQUIST SPARKMAN, LLP

One World Trade Center, Suite 1600
121 S.W. Salmon Street
Portland, Oregon 97204
Telephone: (503) 595-5300
Facsimile: (503) 595-5301
cc: Client
Docketing

By



Kyle B. Rinehart
Registration No. 47,027

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U.S. PATENT DOCUMENTS

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Examiner's Initials*	Cite No. (optional)	Number	Issue or Publication Date	Name of Applicant or Patentee
/MO/		4,815,134	Mar-89	Picone et al.
/MO/		4,969,192	Nov-90	Chen et al.
/MO/		5,255,399	Oct-93	Fette et al.
/MO/		5,394,473	Feb-95	Davidson
/MO/		5,664,051	Sep-97	Hardwick et al.
/MO/		5,668,925	Sep-97	Rothweiler et al.
/MO/		5,699,477	Dec-97	McCree
/MO/		5,717,823	Feb-98	Kleijn
/MO/		5,734,789	Mar-98	Swaminathan et al.
/MO/		5,751,903	May-98	Swaminathan et al.
/MO/		5,778,335	Jul-98	Ubale et al.
/MO/		5,890,108	Mar-99	Yeldener
/MO/		6,108,626	Aug-00	Cellario et al.
/MO/		6,134,518	Oct-00	Cohen et al.
/MO/		6,199,037	Mar-01	Hardwick
/MO/		6,202,045	Mar-01	Ojala et al.
/MO/		6,240,387	May-01	DeJaco

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Examiner's Initials*	Cite No. (optional)	Number	Issue or Publication Date	Name of Applicant or Patentee
/MO/		6,310,915	Oct-01	Wells et al.
/MO/		6,311,154	Oct-01	Gersho et al.
/MO/		6,351,730	Feb-02	Chen
/MO/		6,385,573	May-02	Gao et al.
/MO/		6,493,665	Dec-02	Su et al.
/MO/		6,823,303	Nov-04	Su et al.
/MO/		2001/0023395	Sep-01	Su et al.

FOREIGN PATENT DOCUMENTS

Examiner's Initials*	Cite No. (optional)	Country	Number	Publication Date	Name of Applicant or Patentee
/MO/		Canada	CA 1,336,454	Jul-95	Voicecraft, Inc.
/MO/		Europe	EP 0 503 684	Sep-92	Voicecraft, Inc.
/MO/		France	FR 2 784 218	Apr-00	Thomson CSF
/MO/		Great Britain	GB 2 324 689	Oct-98	Hardwick
/MO/		Japan	JP 1013200 (abstract)	Jan-89	Boisukurafuto Inc
/MO/		WIPO	WO 00 11655	Mar-02	Conexant Systems, Inc.
/MO/		WIPO	WO 98 27543	Jun-98	Interval Research Corporation

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Examiner's Initials*	Cite No. (optional)	OTHER DOCUMENTS
/MO/		B. Bessette, R. Salami, C. Laflamme and R. Lefebvre, "A Wideband Speech and Audio Codec at 16/24/32 kbit/s using Hybrid ACELP/TCX Techniques," in Proc. IEEE Workshop on Speech Coding, pp. 7-9, 1999.
/MO/		Chen et al., "Adaptive Postfiltering for Quality Enhancement of Coded Speech," IEEE Transactions on Speech and Audio Processing, Vol. 3, No. 1, pp. 59-71 (1995).
/MO/		J-H. Chen and D. Wang, "Transform Predictive Coding of Wideband Speech Signals," in Proc. International Conference on Acoustic, Speech, Signal Processing, pp. 275-278, 1996.
/MO/		COMBESCURE, P., et al., "A16, 24, 32 kbit/s Wideband Speech Codec Based on ATCELP," <i>In Proceedings of IEEE International Conference on Acoustics, Speech, and Signal Processing</i> , Vol. 1, pp. 5-8 (March 1999).
/MO/		EL MALEH, K., et al., "Speech/Music Discrimination for Multimedia Applications," <i>In Proceedings of IEEE International Conference on Acoustics, Speech, and Signal Processing</i> , Vol. 4, pp. 2445-2448, (June 2000).
/MO/		ELLIS, D., et al. "Speech/Music Discrimination Based on Posterior Probability Features," <i>In Proceedings of Eurospeech</i> , 4 pages, Budapest (1999).
/MO/		GERSHO, A., "Advances in Speech and Audio Compression", <i>Proceedings of the IEEE</i> , Vol. 82(6):900-918 (June 1994).
/MO/		GERSHO, A., et al., "Vector Quantization and Signal Compression", Dordrecht, Netherlands, Kluwer Academic Publishers, 1992, xxii+732pp.
/MO/		Gerson et al., "Vector Sum Excited Linear Prediction (VSELP) Speech Coding at 8 KBPS," CH2847-2/90/0000-0461 IEEE, pp. 461-464 (1990).
/MO/		HARDWICK, J.C.; LIM, J.S., "A 4.8 KBPS Multi-Brand Excitation Speech Coder", <i>ICASSP 1988 International Conference on Acoustics, Speech, and Signal</i> , New York, NY, USA, 11-14 April 1988, IEEE, Vol. 1, pp. 374-377.
/MO/		HOUTGAST, T., et al., "The Modulation Transfer Function in Room Acoustics As A Predictor of Speech Intelligibility," <i>Acustica</i> , Vol. 23, pp. 66-73 (1973).
/MO/		ITU-T, G.722.1 (09/99), Series G: Transmission Systems and Media, Digital Systems and Networks, "Coding at 24 and 32 kbit/s for hands-free operation in systems with low frame loss.
/MO/		ITU-T, "ITU-T Recommendation G.722, General Aspects of Digital Transmission Systems – Terminal Equipments 7 kHz Audio - Coding within 64 kbit/s," 75 pp. (1988).

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/MO/		ITU-T, "ITU-T Recommendation G.722.1, Series G: Transmission Systems and Media, Digital Systems and Networks. Digital terminal equipments – Coding of analogue signals by methods other than PCM – Coding at 24 and 32 kbit/s for hands-free operation in systems with low frame loss," 26 pp. (1999).
/MO/		ITU-T, "ITU-T Recommendation G.722.1 – Corrigendum 1, Series G: Transmission Systems and Media, Digital Systems and Networks. Digital terminal equipments – Coding of analogue signals by methods other than PCM – Coding at 24 and 32 kbit/s for hands-free operation in systems with low frame loss," 9 pp. (2000).
/MO/		ITU-T, "ITU-T Recommendation G.722.1 Annex A, Series G: Transmission Systems and Media, Digital Systems and Networks. Digital terminal equipments – Coding of analogue signals by methods other than PCM – Coding at 24 and 32 kbit/s for hands-free operation in systems with low frame loss, Annex A: Packet format, capability identifiers and capability parameters" 9 pp. (2000).
/MO/		ITU-T, "ITU-T Recommendation G.722.1 Annex B, Series G: Transmission Systems and Media, Digital Systems and Networks. Digital terminal equipments – Coding of analogue signals by methods other than PCM – Coding at 24 and 32 kbit/s for hands-free operation in systems with low frame loss, Annex B: Floating-point implementation for G.722.1" 9 pp. (2000).
/MO/		ITU-T, "ITU-T Recommendation G.722.2, Series G: Transmission Systems and Media, Digital Systems and Networks. Digital terminal equipments – Coding of analogue signals by methods other than PCM – Wideband coding of speech at around 16 kbit/s using Adaptive Multi-Rate Wideband (AMR-WB)," 71 pp. (2003).
/MO/		ITU-T, "ITU-T Recommendation G.722.2 Erratum 1, Series G: Transmission Systems and Media, Digital Systems and Networks. Digital terminal equipments – Coding of analogue signals by methods other than PCM – Wideband coding of speech at around 16 kbit/s using Adaptive Multi-Rate Wideband (AMR-WB)," 1 p. (2004).
/MO/		ITU-T, "ITU-T Recommendation G.722.2 Annex A, Series G: Transmission Systems and Media, Digital Systems and Networks. Digital terminal equipments – Coding of analogue signals by methods other than PCM – Wideband coding of speech at around 16 kbit/s using Adaptive Multi-Rate Wideband (AMR-WB), Annex A: Comfort noise aspects," 14 pp. (2002).

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/MO/		ITU-T, "ITU-T Recommendation G.722.2 Annex B, Series G: Transmission Systems and Media, Digital Systems and Networks. Digital terminal equipments – Coding of analogue signals by methods other than PCM – Wideband coding of speech at around 16 kbit/s using Adaptive Multi-Rate Wideband (AMR-WB), Annex B: Source Controlled Rate Operation," 13 pp. (2002).
/MO/		ITU-T, "ITU-T Recommendation G.722.2 Annex B Erratum 1, Series G: Transmission Systems and Media, Digital Systems and Networks. Digital terminal equipments – Coding of analogue signals by methods other than PCM – Wideband coding of speech at around 16 kbit/s using Adaptive Multi-Rate Wideband (AMR-WB), Annex B: Source Controlled Rate Operation," 1 p. (2003).
/MO/		ITU-T, "ITU-T Recommendation G.722.2 Annex C Erratum 1, Series G: Transmission Systems and Media, Digital Systems and Networks. Digital terminal equipments – Coding of analogue signals by methods other than PCM – Wideband coding of speech at around 16 kbit/s using Adaptive Multi-Rate Wideband (AMR-WB), Annex C: Fixed-point C-code," 2 pp. (2004).
/MO/		ITU-T, "ITU-T Recommendation G.722.2 Annex D, Series G: Transmission Systems and Media, Digital Systems and Networks. Digital terminal equipments – Coding of analogue signals by methods other than PCM – Wideband coding of speech at around 16 kbit/s using Adaptive Multi-Rate Wideband (AMR-WB), Annex D: Digital test sequences," 13 pp. (2003).
/MO/		ITU-T, "ITU-T Recommendation G.722.2 Annex E, Series G: Transmission Systems and Media, Digital Systems and Networks. Digital terminal equipments – Coding of analogue signals by methods other than PCM – Wideband coding of speech at around 16 kbit/s using Adaptive Multi-Rate Wideband (AMR-WB), Annex E: Frame Structure," 27 pp. (2002).
/MO/		ITU-T, "ITU-T Recommendation G.722.2 Annex E Corrigendum 1, Series G: Transmission Systems and Media, Digital Systems and Networks. Digital terminal equipments – Coding of analogue signals by methods other than PCM – Wideband coding of speech at around 16 kbit/s using Adaptive Multi-Rate Wideband (AMR-WB), Annex E: Frame Structure," 1 p. (2003).
/MO/		ITU-T, "ITU-T Recommendation G.722.2 Annex F, Series G: Transmission Systems and Media, Digital Systems and Networks. Digital terminal equipments – Coding of analogue signals by methods other than PCM – Wideband coding of speech at around 16 kbit/s using Adaptive Multi-Rate Wideband (AMR-WB), Annex F: AMR-WB using in H.245," 10 pp. (2002).

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/MO/		ITU-T, "ITU-T Recommendation G.723.1, General Aspects of Digital Transmission Systems, Dual Rate Speech Coder for Multimedia Communications Transmitting at 5.3 and 6.3 kbit/s," 31 pp. (1996).
/MO/		ITU-T, "ITU-T Recommendation G.723.1 Annex A, Series G: Transmission Systems and Media, Digital transmission systems – Terminal Equipments – Coding of analogue signals by methods other than PCM, Dual Rate Speech Coder for Multimedia Communications Transmitting at 5.3 and 6.3 kbit/s, Annex A: Silence compression scheme," 21 pp. (1996).
/MO/		ITU-T, "ITU-T Recommendation G.723.1 Annex B, Series G: Transmission Systems and Media, Digital transmission systems – Terminal Equipments – Coding of analogue signals by methods other than PCM, Dual Rate Speech Coder for Multimedia Communications Transmitting at 5.3 and 6.3 kbit/s, Annex B: Alternative specification based on floating point arithmetic," 8 pp. (1996).
/MO/		ITU-T, "ITU-T Recommendation G.723.1 Annex C, Series G: Transmission Systems and Media, Digital transmission systems – Terminal Equipments – Coding of analogue signals by methods other than PCM, Dual Rate Speech Coder for Multimedia Communications Transmitting at 5.3 and 6.3 kbit/s, Annex C: Scalable channel coding scheme for wireless applications," 23 pp. (1996).
/MO/		ITU-T, "ITU-T Recommendation G.728, General Aspects of Digital Transmission Systems; Terminal Equipment Coding of Speech at 16 kbit/s Using Low-Delay Code Excited Linear Prediction," 65 pp. (1992).
/MO/		ITU-T, "ITU-T Recommendation G.728 Annex G, General Aspects of Digital Transmission Systems; Terminal Equipment Coding of Speech at 16 kbit/s Using Low-Delay Code Excited Linear Prediction, Annex G: 16 kbit/s Fixed Point Specification," 67 pp. (1994).
/MO/		ITU-T, "ITU-T Recommendation G.728 Annex G Corrigendum 1, Series G: Transmission Systems and Media, Digital Systems and Networks, Digital Transmission Systems; Terminal Equipment Coding of Analogue Signals by methods other than PCM, Coding of speech at 16 kbit/s Using Low-Delay Code Excited Linear Prediction, Annex G: 26 kbit/s Fixed Point Specification – Corrigendum 1," 11 pp. (2000).
/MO/		ITU-T, "ITU-T Recommendation G.728 Annex H, Series G: Transmission Systems and Media, Digital Systems and Networks, Digital Transmission Systems; Terminal Equipment Coding of Analogue Signals by methods other than PCM, Coding of speech at 16 kbit/s Using Low-Delay Code Excited Linear Prediction, Annex H: Variable bit rate LD-CELP operation mainly for DCME at rates less than 16 kbit/s," 19 pp. (1999).

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/MO/		ITU-T, "ITU-T Recommendation G.728 Annex I, Series G: Transmission Systems and Media, Digital Systems and Networks, Digital Transmission Systems; Terminal Equipment Coding of Analogue Signals by methods other than PCM, Coding of speech at 16 kbit/s Using Low-Delay Code Excited Linear Prediction, Annex I: Frame or packet loss concealment for the LD-CELP decoder," 25 pp. (1999).
/MO/		ITU-T, "ITU-T Recommendation G.728 Annex J, Series G: Transmission Systems and Media, Digital Systems and Networks, Digital Transmission Systems; Terminal Equipment Coding of Analogue Signals by methods other than PCM, Coding of speech at 16 kbit/s Using Low-Delay Code Excited Linear Prediction, Annex J: Variable bit-rate operation of LD-CELP mainly for voiceband-data applications in DCME," 40 pp. (1999).
/MO/		ITU-T, "ITU-T Recommendation G.729, Coding of Speech at 8 kbit/s Using Conjugate-Structure Algebraic-Code-Excited Linear-Prediction (CS-ACELP)," 39 pp. (1996).
/MO/		Kabal et al., "Adaptive Postfiltering for Enhancement of Noisy Speech in the Frequency Domain," CH 3006-4/91/0000-0312 IEEE, pp. 312-315. ; June 1991
/MO/		KEMP, D.P.; COLLURA J.S., ; TREMAIN, T.E., "Multi-Frame Coding of LPC Acoustics, Speech, and Signal Processing, Toronto, Ont., Canada, 14-17 May 1991; New York, N.Y. USA, <i>IEEE</i> , 1991, Vol. 1, pp. 609-612.
/MO/		Kroon et al., "Quantization Procedures for the Excitation of Celp Coders," CH2396-0/87/0000-1649 IEEE, pp. 1649-1652 (1987).
/MO/		LEBLANC, W.P., et al., "Efficient Search and Design Procedures for Robust Multi-Stage VQ of LPC Parameters for 4KB/S Speech Coding". In <i>IEEE Trans. Speech & Audio Processing</i> , Vol. 1, pp. 272-285, (October 1993).
/MO/		Lefebvre, et al., "High quality coding of wideband audio signals using transform coded excitation (TCS)," April 1994, 1994 IEEE International Conference on Acoustics, Speech, and Signal Processing, Vol. 1, pp. I/193-I/196.
/MO/		Lefebvre et al., "Spectral Amplitude Warping (SAW) for Noise Spectrum Shaping in Audio Coding," IEEE, pp. 335-338 (1997).
/MO/		Liang, et al., "Adaptive Playout Scheduling and Loss Concealment for Voice Communication Over IP Networks," IEEE Transactions on Multimedia, Vol. 5, No. 4, pp. 532-543 (2003).
/MO/		MCAULAY, "Sine-Wave Amplitude Coding at Low Data Rates, Advances in Speech Coding," <i>Kluwer Academic Pub.</i> , pp. 203-214, 1991.

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/MO/		MCCREE, et al., "A 2.4 KBIT/S MELP Coder Candidate for the New U.S. Federal Standard", <i>1996 IEEE International Conference on Acoustics, Speech, and Signal Processing Conference Proceedings</i> , Atlanta, GA (Cat. No. 96CH35903), Vol. 1, pp. 200-203, 7-10 May 1996.
/MO/		MCCREE, A.V., et al., "A Mixed Excitation LPC Vocoder Model for Low Bit Rate Speech Coding", <i>IEEE Transaction on Speech and Audio Processing</i> , Vol. 3(4):242-250 (July 1995).
/MO/		MOUY, B. et al., "Nato Stanag 4479: A Standard for An 800 BPS Vocoder and Channel Coding In HF-ECCM System", <i>1995 International Conference on Acoustics, Speech, and Signal Processing Conference Proceedings</i> , Detroit MI, USA, 9-12 May 1999; New York, NY, USA: <i>IEEE</i> , 1995, Vol. 1, pp. 480-483.
/MO/		MOUY, B.M.; De La NOURE, P.E., "Voice Transmission at a Very Low Bit Rate on A Noisy Channel: 800 BPS Vocoder with Error Protection to 1200 BPS", <i>ICASSP-92: 1992 IEEE International Conference on Acoustics, Speech, and Signal</i> , San Francisco, CA, USA, 23-26 March 1992, New York, NY, USA: <i>IEEE</i> , 1992 Vol. 2, pp. 149-152.
/MO/		Mustapha et al., "An Adaptive Post-Filtering Technique Based on the Modified Yule-Walker Filter," <i>ICASSP-1999</i> , 4 pp. (1999).
/MO/		NISHIGUCHI, L.; IJIMA, K.; MATSUMOTO, J., "Harmonic Vector Excitation Coding of Speech at 2.0 KPS", <i>1997 IEEE Workshop on Speech coding for telecommunication proceedings</i> , Pocono Manor, PA, USA, 7-10 September 1997, New York, NY, USA,: <i>IEEE</i> , 1997, pp. 39-40.
/MO/		NOMURA, T.; IWADARE, M.; SERIZAWA, M.; OZAWA, K., "a Bitrate and Bandwidth Scalable Celp Coder", <i>ICASSP 1998 International Conference on Acoustics, Speech, and Signal</i> , Seattle, WA, USA, 12-15 May 1998, <i>IEEE</i> , 1998, Vol. 1, pp. 341-344.
/MO/		Ramjee et al., "Adaptive Payout Mechanisms for Packetized Audio Applications in Wide-Area Networks," 0743-166X/94 <i>IEEE</i> , pp. 680-688 (1994).
/MO/		S.A. Ramprashad, "A Multimode Transform Predictive Coder (MTPC) for Speech and Audio," in <i>Proc. IEEE Workshop on Speech Coding</i> , pp. 10-12, 1999.
/MO/		Salami, et al., "A wideband codec at 16/24 kbit/s with 10 ms frames," Sept. 1997, <i>1997 Workshop on Speech Coding for Telecommunications</i> , pp. 103-104.
/MO/		SAUNDERS, J., "Real Time Discrimination of Broadcast Speech/Music," <i>Proceedings of IEEE International Conference on Acoustics, Speech, and Signal Processing</i> , Vol. 2, pp. 993-996 (May 1996).

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/MO/		SCHEIRER, E., et al., "Construction and Evaluation of a Robust Multifeature Speech/Music Discriminator," <i>In Proceedings of IEEE International Conference on Acoustics, Speech, and Signal Processing</i> , Vol. 2, pp. 1331-1334, (April 1997).
/MO/		J. Schnitzler, J. Eggers, C. Erdmann and P. Vary, "Wideband Speech Coding Using Forward/Backward Adaptive Prediction with Mixed Time/Frequency Domain Excitation," in <i>Proc. IEEE Workshop on Speech Coding</i> , pp. 3-5, 1999.
/MO/		Schroeder et al., "Code-Excited Linear Prediction (CELP): High-Quality Speech at Very Low Bit Rates," CH2118-8/85/0000-0937 IEEE, pp. 937-940 (1985).
/MO/		Sreenan et al., "Delay Reduction Techniques for Playout Buffering," <i>IEEE Transactions on Multimedia</i> , Vol. 2, No. 2, pp. 88-100 (2000).
/MO/		SUPPLEE, Lyn M. et al., "MELP: THE NEW FEDERAL STANDARD AT 2400 BPS", <i>IEEE 1997</i> , pp. 1591-1594 in lieu of the following which we are unable to obtain <u>Specification for the Analog to Digital Conversation of Voice by 2,400 Bit/Second Mixed Excitation Linear Prediction FIPS, Draft document of proposed Federal Standard, dated May 28, 1998.</u>
/MO/		L. Tancerel, R. Vesa, V.T. Ruoppila and R. Lefebvre, "Combined Speech and Audio Coding by Discrimination," in <i>Proc. IEEE Workshop on Speech Coding</i> , pp. 154-156, 2000.
/MO/		Tasaki et al., "Post Noise Smoother to Improve Low Bit Rate Speech-Coding Performance," 0-7803-5651-9/99 IEEE, pp. 159-161 (1999).
/MO/		Tasaki et al., "Spectral Postfilter Design Based on LSP Transformation," 0-7803-4073-6/97 IEEE, pp. 57-58 (1997).
/MO/		TZANETAKIS, G., et al., "Multifeature Audio Segmentation for Browsing and Annotation," <i>Proc. IEEE Workshop on Applications of Signal Processing to Audio and Acoustics</i> , New Paltz, NY, pp. 103-106 (October 1999).
/MO/		A. Ubale and A. Gersho, "Multi-Band CELP Wideband Speech Coder," <i>Proc. IEEE Int. Conf. on Acoustics, Speech and Signal Processing</i> , Munich, pp. 1367-1370.; april 1997
/MO/		WANG, Tian et al., "A 1200 BPS Speech Coder Based on MELP", in <i>Proceedings of the IEEE International Conference on Acoustics, Speech and Signal Processing</i> , June 2000, pp. 1375-1378.

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